

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 08-045545

(43)Date of publication of application : 16.02.1996

(51)Int.CI.

H01M 10/40

H01M 4/02

H01M 4/58

(21)Application number : 07-097122

(71)Applicant : SAFT (SOC ACCUMULATEURS
FIXES TRACTION) SA

(22)Date of filing : 21.04.1995

(72)Inventor : SIMON BERNARD
BOEUVE JEAN-PIERRE

(30)Priority

Priority number : 94 9404889 Priority date : 22.04.1994 Priority country : FR

(54) LITHIUM STORAGE CELL HAVING CARBON ANODE

(57)Abstract:

PURPOSE: To provide a storage cell having high mass and capacitive energy and which is possible to be kept safe throughout the use time by containing a specified compound to an electrolytic solution in a lithium storage battery comprising a cathode and respectively specified anode, and electrolytic solution.

CONSTITUTION: This lithium storage cell comprises a cathode, an anode containing a carbon material with >0.8 crystallinity and an electrolytic solution containing a mixture of two or more non-protonic organic solvents containing a first solvent (for example ethylene carbonate) having a high dielectric constant and a second solvent (for example diethyl carbonate) having a low viscosity together with a Li salt (for example lithium trifluoromethanesulfonimide). In this storage cell, a soluble compound (for example vinylene carbonate) which is the same type as the solvents, contains one or more unsaturated bonds and is reducible at the anode at a potential higher than that of Li by 1V or more to form a passivation layer is further contained to the electrolytic solution.

LEGAL STATUS

[Date of request for examination] 17.12.1998

[Date of sending the examiner's decision of
rejection][Kind of final disposal of application other than
the examiner's decision of rejection or
application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision
of rejection]

[Date of requesting appeal against examiner's

[decision of rejection]

[Date of extinction of right]

Copyright (C) 1998,2003 Japan Patent Office